PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

R	Applicant's or agent's file reference RSJ08100WO		FOR FURTHER ACTION		See Form PCT/IPEA/416			
P	International application No. PCT/GB2005/001640		International filing da 29.04.2005		Priority date (day/month/year) 04.05.2004			
IN	V. G07D7/00	lassification (IPC) or n	ational classification ar	id IPC				
Applicant DE LA RUE INTERNATIONAL LIMITED								
1.	Authority under Article 35 and transmitted to the applicant according to Article 36.							
	2. This REPORT consists of a total of 6 sheets, including this cover sheet.							
3.	3. This report is also accompanied by ANNEXES, comprising:							
a. Sent to the applicant and to the International Bureau) a total of 3 sheets as follows:								
	⊠ sne and Adr	eets of the description Nor sheets containin ministrative Instruction	on, claims and/or drav g rectifications autho ons).	wings which have beer orized by this Authority	n amended and are the basis of this report (see Rule 70.16 and Section 607 of the			
	☐ she bey Sup	peets which supersede earlier sheets, but which this Authority considers contain an amendment that goes upplemental Box.						
	b.	the International Buce listing and/or table to Sequence Listing	<i>reau only)</i> a total of es related thereto, in g (see Section 802 o	(indicate type and num electronic form only, a f the Administrative Ins	ber of electronic carrier(s)) , containing a sindicated in the Supplemental Box structions).			
4.	This report contains indications relating to the following items:							
	Box No. I	No. I Basis of the report						
	☐ Box No. II	Priority						
	☐ Box No. III	Non-establishmer	nt of opinion with reg	ard to novelty, inventiv	e step and industrial and the step			
	☐ Box No. IV	Lack of unity of in	vention	with regard to novelty, inventive step and industrial applicability				
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step applicability; citations and explanations supporting such statement					ty, inventive step or industrial			
	□ Box No. VI	ox No. VII Certain defects in the international application						
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	☑ Box No. VIII Certain observations on the international application							
Date	of submission of the	e demand		Date of completion of the	nis report			
	2.2006			26.05.2006				
Name prelin	nnary examining au			Authorized officer				
European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016				Espuela, V Telephone No. +31 70 3	340-3272			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2005/001640

_	Во	ox No. I	Basis of the repo	ort	
1	. W	ith regar		his report is based on	
	\boxtimes			on in the language in which it was filed	
				tional application into Judich to the L	
	international search (under Rules 12.3(a) and 23.1(b)) publication of the international application (under Rule 12.4(a)) international preliminary examination (under Rules 55.2(a) and/or 55.3(a))				
2. With regard to the elements* of the international application, this report is based on (replacem have been furnished to the receiving Office in response to an invitation under Article 14 are referenced as "originally filed" and are not annexed to this report):				of the international application, this report is based on <i>(replacement sheets which</i>	
	Des	scription,	Pages		
	1-10	3		as originally filed	
	Clai	ims, Num	nbers		
	10-1	19		as originally filed	
	1-9,	20-36		filed with telefax on 22.02.2006	
	Drav	wings, SI	neets		
	1/1			as originally filed	
		a seque	nce listing and/or ar	DV related table(a) and Sumular and a	
				ny related table(s) - see Supplemental Box Relating to Sequence Listing	
3. [The am	endments have resu	ulted in the cancellation of:	
		⊔ the d	escription, pages laims, Nos.		
		the d	rawings, sheets/figs		
		∐ thes	equence listing <i>(spe</i>	ecify):	
		⊔ any t	able(s) related to se	equence listing (specify):	
4.	had i	This repondent	ort has been establi made, since they h	shed as if (some of) the amendments annexed to this report and listed below lave been considered to go beyond the disclosure as filed, as indicated in the	
			ll Box (Rule 70.2(c)) escription, pages		
	L	ال the cl	aims, Nos.		
	[the di	awings, sheets/figs		
	[⊒ the se ∃ any ta	equence listing <i>(spe</i> able(s) related to se	<i>cify)</i> : quence listing <i>(specify)</i> :	
	* 1				
			apprice, SO	me or all of these sheets may be marked "superseded."	

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International application No. PCT/GB2005/001640

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-36

No: Claims

Inventive step (IS)

Yes: Claims

No:

Claims

1-36

Industrial applicability (IA)

Yes: Claims

1-36

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. Reference is made to the following document:
 - D1: WO 02/059840 A (HEITSCH, WOLFGANG; PRIEBE, GERD; LIPPERT, GUNTHER) 1 August 2002 (2002-08-01)
- 2. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-36 does not involve an inventive step in the sense of Article 33(3) PCT.
- 2.1 INDEPENDENT CLAIMS 1, 22, 23

Independent claim 1 reads: 'A method of forming an optical decoding device to enable hidden information or indicia on an article to be revealed, the method comprising electronically transferring data defining the decoding device from a central source to a remote site, and creating the optical decoding device at the remote site using the transmitted data.'

Document D1 discloses an information device (cell phone) with an accessory device for testing security features in documents, the accessory device using software that is updated via a SMS (short message service) received from the network. The software update is used when the user needs to authenticate a different valuable than the one allowed with the current software (page 6, lines 6-20; figure 1).

Document D1 discloses thus a decoding device composed of two different parts, a physical and a logical part, the physical part being the accessory device while the logical/controlling part is the software detecting the security features of the article to be authenticated. It is understood that the decoding device of document D1 changes every time that a new valuable must be verified, the changes to be made (the software update) being received from the network the information device is attached to.

The decoding device disclosed in D1 can also be optical, comprising a set of illumination assemblies, like lasers, diodes, CCD cameras or lenses, as disclosed in the examples 5 and 6 (D1, page 9, lines 1-24).

Therefore, the method to create an optical decoding device disclosed in document D1 is an equivalent method to that claimed in claim 1, both optical decoding devices being adapted to the particular features of the valuable to be authenticated, the subject-matter of claim 1 thus lacking inventive step in the sense of Article 33(3) PCT.

2.2 Analogously to claim 1, the subject-matter of claims 22, 23 does not involve an inventive step in the sense of Article 33(3) PCT.

2.3 INDEPENDENT CLAIMS 29, 35

Claims 29 and 35 claim a decoding device system comprising a central source to provide data defining the decoding device, a transmission system and a creation system at a remote site for creating the decoding device, the decoding device being an optical decoding device in the case of claim 29.

As explained in point 2.1 above with respect to claims 1, 22, 23, document D1 (page 6, lines 6-20; figure 1) discloses a system where the decoding device is attached to a cell phone, this cell phone receiving software updates for the decoding device via SMS (short message service) from the network.

The creation of the decoding device in document D1 is made by downloading new software to the existing accessory device, this new software modifying the functionality of said existing device, and making it work as a different decoding device.

When having a (mobile) network it is implicitly disclosed the existence of at least one central server controlling the said network.

As also explained in point 2.1 above, the decoding device disclosed in D1 can also be optical (D1, page 9, lines 1-24).

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Therefore, the subject-matter of claims 29, 35 lacks inventive step in the sense of Article 33(3) PCT.

2.4 Dependent claims 2-21, 24-28, 30-34, 36 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, the subject-matter of claims 2-21, 24-28, 30-34, 36 thus not being inventive (Article 33(3) PCT).

Re Item VIII

Certain observations on the international application

Claims 1, 23 lack the features of selecting the document to be authenticated and the central source transmitting the information containing the security features for that document. Without those features it is not clear how the central source is indicated what information to transmit to the remote site and how it is done, claims 1 and 23 thus lacking clarity in the sense of Article 6 PCT.

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CLAIMS

- 1. A method of forming an optical decoding device to enable hidden information or indicia on an article to be revealed, the method comprising electronically transferring data defining the decoding device from a central source to a remote site, and creating the optical decoding device at the remote site using the transmitted data.
- 2. A method according to claim 1, wherein the article comprises an article of value such as a document, for example selected from the group of banknotes, fiscal stamps, certificates of authenticity, cheques, bonds, retail vouchers, postage stamps, passports, identity documents, and travellers cheques.
- 3. A method according to claim 1 or claim 2, wherein the central source comprises a database.
 - 4. A method according to any of the preceding claims, wherein the data defines one or more of the colour or black and white content of a decoding image, a line structure, or
- 20 a 3-D structure.
 - 5. A method according to claim 4, wherein the data defines the colour or black and white content of the decoding device in the form of pixel data or vector data.
- 6. A method according to any of the preceding claims,
 wherein the decoding device comprises one or more of an optical filter, a line or dot pattern, coloured filter, curved line structure, concentric circles, geometric figures, microlens arrays, lenticular screens, lenses and Fresnel lenses.
- 7. A method according to any of the preceding claims, wherein the step of creating the decoding device comprises printing, engraving or ablating the decoding device on a record medium.
- 8. A method according to claim 7, wherein the record 35 medium comprises paper or plastic.
 - 9. A method according to claim 7 or claim 8, wherein the record medium is transparent.

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defining decoding devices corresponding to different levels of security.

- 20. A method according to claim 19, wherein the level of security of the transferred decoding device is determined in accordance with the identity of the remote site.
- 21. A method according to any of the preceding claims, further comprising recording details of the identity of a user at a remote site requesting data from the central source.
- 10 22. An optical decoding device which has been formed by a method according to any of claims 1 to 21.
 - 23. A method of checking the validity of a security device on an article, the method comprising forming an optical decoding device at a remote site using data transferred
- electronically from a central source; and viewing the optical decoding device in association with the security device to validate the security device.
 - 24. A method according to claim 23, wherein the article comprises an article of value such as a document, for
- example selected from the group of banknotes, fiscal stamps, certificates of authenticity, cheques, bonds, retail vouchers, postage stamps, passports, identity documents, and travellers cheques.
- 25. A method according to claim 23 or claim 24, wherein the security device comprises a hidden code not readily visible to the naked eye.
 - 26. A method according to any of claims 23 to 25, wherein the security device comprises one or more of an array of dots, scrambled indicia, line pattern and metameric feature.
 - 27. A method according to any of claims 23 to 26, wherein the decoding device is formed on a transparent substrate and is placed over the security device to validate it.
- 28. A method according to any of claims 23 to 27, wherein the forming step is carried out in accordance with any of claims 1 to 21.

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- 29. An optical decoding device forming system comprising a central source for providing data defining an optical decoding device to enable hidden information or indicia on an article to be revealed; a transmission system for transmitting data from the central source to a remote site; and a creation system at the remote site for creating the optical decoding device using the transmitted data.
- 30. A system according to claim 29, wherein the creation system comprises one of an ink jet printer, laser printer,
- 3D ink jet printing device, laser engraver, laser marker, laser ablating device, laser cutter, fax machine, commercial ink jet, digital press, conventional press or computer operated machine or a display screen, such as a high resolution display screen, monitor or high intensity display.
 - 31. A system according to claim 29 or claim 30, wherein the central source comprises a database.
 - 32. A system according to any of claims 29 to 31, further comprising a processor located at the central source for controlling access to data in the central source.
 - 33. A system according to any of claims 29 to 32, wherein the decoding device comprises an image or indicia which, when viewed in association with a security device, reveals hidden information or indicia within the security device.
- 25 34. A system according to any of claims 29 to 33, adapted to carry out a method according to any of claims 1 to 21.
 - 35. A decoding device supply system comprising a central source for supplying data defining a decoding device to enable hidden information or indicia on an article to be revealed, to one or more remote sites.
 - 36. A system according to claim 35, wherein the central source comprises a database.